

Anuket Weekly Technical Discussions - 2021.08.25

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 - [Containerization of traffic generators with Xtesting - Sridhar Rao](#)
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Participants

Please add your name to the list

- [Gergely Csatai](#)
- [Beth Cohen](#)
- [Georg Kunz](#)
- [Ulrich Kleber](#)
- [Sridhar Rao](#)
- [Luc Provoost](#)
- [Karine Sevilla](#)
- [Ildiko Vancsa](#)
- [Cedric Ollivier](#)

Antitrust policies

- [Linux Foundation Anti-Trust Policy](#)
- [GSMA Anti-Trust Policy Notice](#)
- Recorded Policies:
 - [https://zoom.us/rec/play/uMAuluyogG43EtWS4QSDAf4oW9XsKP2s1CQW-fYNzXu3VSiGN1L3Z7YSNOX-H7MYUyogBulNABoVavXq?autoplay=true&startTime=1589371628000](https://zoom.us/join/https://zoom.us/rec/play/uMAuluyogG43EtWS4QSDAf4oW9XsKP2s1CQW-fYNzXu3VSiGN1L3Z7YSNOX-H7MYUyogBulNABoVavXq?autoplay=true&startTime=1589371628000)

Action item register

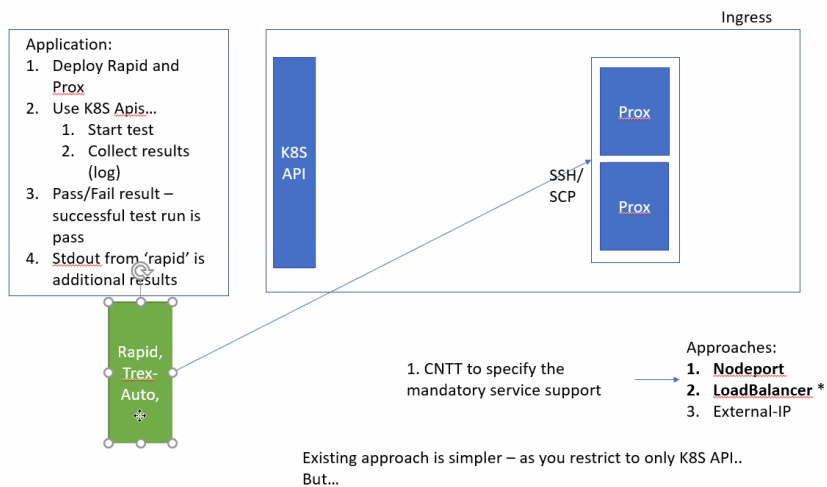
Organisation topics

- N/A

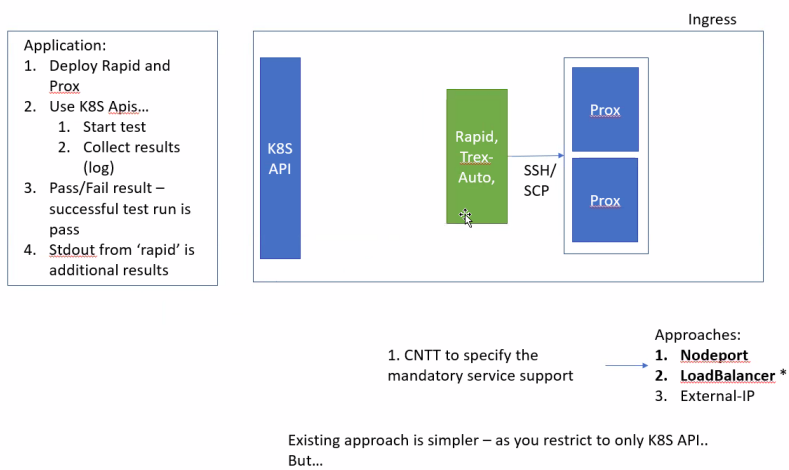
Technical topics

Containerization of traffic generators with Xtesting - [Sridhar Rao](#)

- Initial architecture: [Integration with Xtesting - Lakelse](#)
- Discussion of traffic generators. Where do they need to be installed?
- They need to have additional tools installed either inside or outside the environment to test.
- Need to deploy the tools (Rapid and Prox), then use K8S APIs to run the tests and collect results.
- For this work the test results are pass/fail. Stdout from "rapid" is additional results.
- So where do you put the control function (Rapid) to start and stop the traffic generator (Prox),
- Currently it HAS to be inside the environment, better to move it to outside.
- One approach
 - There is a need for an application to LCM the test framework pods (Rapid, Prox), collect the results and calculate the test results
 - If this application is outside of the cluster and uses the Kubernetes API-s
 - For this the integration between Rapid and Xtesting needs to be modified
 - Presentation of the output needs to be also changed
- Maybe there are alternate approaches
 - If the complete Xtesting runs within the cluster the integration will be more easy, but in that case collecting the results is ugly and difficult
- In RA2 there are no guidelines about what are the mandatory service types
 - E.g.: Nodeport, Loadbalancer, External IP
 - There is an RA2 issue about this: <https://github.com/cnnt-n/CNTT/issues/2453>
 - The approach for SSH connection is not defined without this
 - Best candidate would be Loadbalancer, for this RA2 should add Loadbalancer as a mandatory service
 - There are tests about Ingress in the Kubernetes conformance test suite
 - We are not sure if KubeRef has Loadbalancer or External IP installed
 - This is a pre requisite for successful testing
- Desired architecture:



- Possible workaround:



- Next steps
 - Nodeport is not a nice solution, but that supported by every Kubernetes deployments
 - For this the exact node and the port should be figured out
 - Nodeport is disliked by several telcos
 - It is good as a first iteration, let's start with this
 - Desired solution would be Loabalancer, but that needs an discussion in RA2 what cold take some time

AoB

- None